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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 13:03
L2	6	"2004017392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L3	2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L4	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L5	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L6	4	(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L7	1	(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/02/24 13:03
L8	667	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L9	327	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

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L10	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L11	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L12	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L13	397	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L14	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L15	128	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L16	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L17	0	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L18	12	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L19	1	707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

L20	1	707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L21	0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L22	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L23	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L24	4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L25	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L26	2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2007/02/24 13:03
L27	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2007/02/24 13:03
L28	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L29	-	(file near2 lock\$4) same (lock near2 (valid or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/02/24 13:03
L30		(file near2 lock\$4) same (lock near2 (valid and invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

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L31	11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L32	11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L33	10	(reviv\$4 near2 lock\$4) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L34	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 13:03
L35	6	"2004017392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L36	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L37	667	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L38	327	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L39	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L40	397	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

L41	128	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L42	0	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L43	1	707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:13
L44	1	707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L45	0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L46	. 4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L47	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L48	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L49	1	(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L50	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

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L51	2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L52	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L53	4	(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L54	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L55	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L56	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L57	12	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L58	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L59	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L60	2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2007/02/24 13:03
L61	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2007/02/24 13:03

L62	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 13:03
L63	6	"2004017392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L64	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L65	667	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L66	327	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:16
L67	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L68	397	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L69	128	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L70	0	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L71	1	707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

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L72	1	707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:13
L73	0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ,	ON	2007/02/24 13:03
L74	4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L75	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L76	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L77	5	(file near2 lock\$4) same (lock near2 (valid or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L78	0	(file near2 lock\$4) same (lock near2 (valid and invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L79	11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L80	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 13:03
L81	6	"2004017392" ·	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

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L82	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L83	667	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L84	327	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L85	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L86	397	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L87	128	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:15
L88	. 0	(cop\$4 near2 table) with (conver\$6° near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L89		707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L90		707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L91	0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR.	ON	2007/02/24 13:03

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L92	4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L93	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L94	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:14
L95	1	(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L96	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L97		(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L98	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L99	. 2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L100	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L101		(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

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L102	. 23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L103	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L104	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L105	12	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/02/24 13:03
L106	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L107	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L108	· 2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2007/02/24 13:03
L109	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2007/02/24 13:03
L110	11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L111	10	(reviv\$4 near2 lock\$4) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L112	2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03

L113	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L114	4	(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L115		((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L116	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L117	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:15
L118	12	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L119	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L120	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L121	2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2007/02/24 13:03
L122	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2007/02/24 13:03
L123	4	"20060106878" or "11002160"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/02/24 13:03

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L124	2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:03
L125	. 0	707/10.ccls. and (copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:15
L126	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:15
L127	18	707/10.ccls. and (data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:18
L128	5	707/104.1.ccls. and (data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/24 13:18
S1	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/09 10:21
S2	6	"2004017392 ["]	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 14:50
S3	. 2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:16
S4	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR·	ON .	2006/04/22 15:18
S5	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:18

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S6	4	(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:22
S7		(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:23
S8	600	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:23
S9	298	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:23
S10	22	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:30
S11	22	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:30
S12	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:40
S13	389	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:45
S14	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/22 15:46
S15	117	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 14:45

S16	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 14:07
S17	0	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 14:10
S18	10	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 14:10
S19	1	707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 14:45
S20	1	707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 14:45
S21	0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ,	ON	2006/04/24 11:53
S22	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 15:18
S23	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/23 15:19
S24	4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 08:15
S25	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 08:15
S26	2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2006/04/24 08:51

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S27	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2006/04/24 08:51
S28	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 11:53
S29	5	(file near2 lock\$4) same (lock near2 (valid or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:48
S30	0	(file near2 lock\$4) same (lock near2 (valid and invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:48
S31	11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:49
S32	. 11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:55
S33	9	(reviv\$4 near2 lock\$4) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:56
S34	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2006/04/24 14:57
S35	6	"2004017392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S36	2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57

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S37		(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S38	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S39	4	(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S40	1	(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S41 	600	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S42	298	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S43	22	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/04/24 14:57
S44	22	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S45	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S46	389	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57

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S47	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S48	117	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S49	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S50	0	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S51	10	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S52	1	707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S53	1	707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S54	0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S55	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S56	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57

S57	4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S58	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2006/04/24 14:57
S59	2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2006/04/24 14:57
S60	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2006/04/24 14:57
S61	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 14:57
S62	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 19:35
S63	6	"2004017392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S64	2	"20040172392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/09/08 19:35
S65	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S66	3	(data with conver\$5) same (table with cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S67	4	(data near2 conver\$5) and (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35

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S68	1	(data near2 conver\$5)same (table near2 cop\$4) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S69	633	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S70	315	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	.ON	2006/09/08 19:35
S71	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S72	23	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S73	1	((data near2 conver\$5) with table) same (server with storage) and @ad < "20021206" and (table with cop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S74	394	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/09/08 19:35
S75	12	(data near2 conver\$5) with (table with (select or cop\$4)) and @ad < "20021206" and (server with storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S76	124	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S77	21	(copy\$4 near2 table) with (convert\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35

S78	0	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process) with copy with conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S79	11	(cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206" and (separat\$4 with (job or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S80	1	707/101.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S81	. 1	707/104.1.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S82	. 0	707/100.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S83	9	"20030135480" or " 20020099782" or "20040093222" or "20030023785"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S84	4	" 20020099748" or "20030023758"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S85	4	"20030135480" or "20020099782"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S86	4	"20030135480" or "20020099782"	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/09/08 19:35
S87	2	"20030135480" or "20020099782"	US-PGPUB	OR	ON	2006/09/08 19:35
S88	3	"20030135480" or "20020099782" or "20030023758"	US-PGPUB	OR	ON	2006/09/08 19:35

S89	1	707/10.ccls. and (cop\$4 near2 table) with (conver\$6 near2 table) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S90	5	(file near2 lock\$4) same (lock near2 (valid or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S91	0	(file near2 lock\$4) same (lock near2 (valid and invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S92	11	(file near2 lock\$4) same (lock near2 (inconsisten\$4 invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S93		(file near2 lock\$4) same (lock near2 (inconsisten\$4 or invalid)) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2006/09/08 19:35
S94	9	(reviv\$4 near2 lock\$4) and @ad<"20030429"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S95	6	("2004017392").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 19:35
S96	6	"2004017392"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
S97	0	(data near2 conver\$5) same (table near2 cop\$4) same server same storage and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR -	ON	2006/09/08 19:35
S98	633	(data near2 conver\$5) same (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35

S99	315	(data near2 conver\$5) with (table) and (server with storage) and @ad < "20021206"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/08 19:35
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2 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

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Thomas Kunz, Michiel F. H. Seuren

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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Loren P. Meissner

December 1989 ACM SIGPLAN Fortran Forum, Volume 8 Issue 4

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This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

14 Facial modeling and animation

🚵 Jörg Haber, Demetri Terzopoulos

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(18.15 MB) Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

15 Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann

July 1998 ACM SIGAda Ada Letters, Volume XVIII Issue 4

Publisher: ACM Press

Full text available: The pdf(2.93 MB) Additional Information: full citation, abstract, citings, index terms

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (ORA, Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), George Roma ...

16 Geographic Data Processing

George Nagy, Sharad Wagle

June 1979 ACM Computing Surveys (CSUR), Volume 11 Issue 2

Publisher: ACM Press

Full text available: pdf(4.20 MB)

Additional Information: full citation, references, citings, index terms

17 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh

January 2006 ACM Oral History interviews

Publisher: ACM Press
Full text available: pdf(761.66 KB) Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

18 The Logical Record Access Approach to Database Design

Toby J. Teorey, James P. Fry

June 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(2.81 MB) Additional Information: full citation, references, citings, index terms

19 Special issue: Al in engineering

D. Sriram, R. Joobbani April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

²⁰ Final report of the GSPC state-of-the-art subcommittee

🦍 R. H. Ewald, R. Fryer

June 1978 ACM SIGGRAPH Computer Graphics, Volume 12 Issue 1-2

Publisher: ACM Press

Full text available: pdf(7.85 MB) Additional Information: full citation, abstract

This paper presents the final report of the ACM/SIGGRAPH Graphics Standards Planning Committee (GSPC) State-of-the-Art Subcommittee. This group's charter was to compare existing vector-oriented graphics packages to determine their similarities and differences. Eight graphics packages and the GSPC "Core System" were selected for review.

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Relevance scale 🔲 📟 📟

21 Curriculum recommendations for graduate professional programs in information



systems

May 1972 Communications of the ACM, Volume 15 Issue 5

Publisher: ACM Press

Full text available: pdf(4.00 MB)

Additional Information: full citation, references, citings

Keywords: education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

22 Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation

23 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann August 1986 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(6.32 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

Curriculum recommendations for undergraduate programs in information systems

J. Daniel Couger December 1973 Communications of the ACM, Volume 16 Issue 12 Publisher: ACM Press Full text available: pdf(3.23 MB) Additional Information: full citation, references, citings Keywords: education, information analysis, information systems, management systems, systems analysis, systems design, undergraduate curricula ²⁵ Distributed systems - programming and management: On remote procedure call Patrícia Gomes Soares November 1992 Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2 CASCON '92 Publisher: IBM Press Full text available: pdf(4.52 MB) Additional Information: full citation, abstract, references, citings The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ... ²⁶ EXPRESS: a data EXtraction, Processing, and Restructuring System N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum June 1977 ACM Transactions on Database Systems (TODS), Volume 2 Issue 2 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.62 MB) terms EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ... Keywords: data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

27 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract, citings

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

The evolution of the DECsystem 10



C. G. Bell, A. Kotok, T. N. Hastings, R. Hill

January 1978 Communications of the ACM, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(1.92 MB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

The DECsystem 10, also known as the PDP-10, evolved from the PDP-6 (circa 1963) over five generations of implementations to presently include systems covering a price range of five to one. The origin and evolution of the hardware, operating system, and languages are described in terms of technological change, user requirements, and user developments. The PDP-10's contributions to computing technology include: accelerating the transition from batch oriented to time sharing computing systems; ...

Keywords: architecture, computer structures, operating system, timesharing

²⁹ Ada translation tools development: automatic translation of FORTRAN to Ada



M. Parsian, B. Basdell, Y. Bhayat, I. Caldwell, N. Garland, B. Jubanowsky, J. Robinette November 1988 ACM SIGAda Ada Letters, Volume VIII Issue 6

Publisher: ACM Press

Full text available: pdf(848.03 KB) Additional Information: full citation, abstract, citings, index terms

The problem addressed is how existent syntactically and semantically correct FORTRAN programs can be translated into Ada programs (library units). We present a system to find one possible form of translation. Our algorithm for translator system can be applied to generate translators from any source high level language into target language (Ada source code).

30 Information storage and retrieval: a survey and functional description



Jack Minker

September 1977 ACM SIGIR Forum, Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, references, citings

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them:(1) Document retrieval,(2) Generalized data management, and(3) Question-answering. A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

31 4.2BSD and 4.3BSD as examples of the UNIX system



John S. Quarterman, Abraham Silberschatz, James L. Peterson December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(4.07 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of

California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ... 32 MIL primitives for querying a fragmented world Peter A. Boncz, Martin L. Kersten October 1999 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 2 Publisher: Springer-Verlag New York, Inc. Full text available: 🔁 pdf(261.36 KB) Additional Information: full citation, abstract, citings, index terms In query-intensive database application areas, like decision support and data mining, systems that use vertical fragmentation have a significant performance advantage. In order to support relational or object oriented applications on top of such a fragmented data model, a flexible yet powerful intermediate language is needed. This problem has been successfully tackled in Monet, a modern extensible database kernel developed by our group. We focus on the design choices made in the Monet interprete ... Keywords: Database systems, Main-memory techniques, Query languages, Query optimization, Vertical fragmentation 33 Human-computer interface development: concepts and systems for its management H. Rex Hartson, Deborah Hix March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(7.97 MB) terms, review Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

³⁴ A data definition and mapping language Edgar H. Sibley, Robert W. Taylor

December 1973 Communications of the ACM, Volume 16 Issue 12

Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: full citation, references, citings

Keywords: data and storage structure, data base management systems, data definition langauge, data translation, file translation

35 Data base directions: the next steps



John L. Berg

November 1976 ACM SIGMOD Record , ACM SIGMIS Database, Volume 8 , 8 Issue 4 , 2

Publisher: ACM Press

Full text available: pdf(9.95 MB)

Additional Information: full citation, abstract, citings

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop

of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

36 Recovery Techniques for Database Systems

Joost S. M. Verhofstad

June 1978 ACM Computing Surveys (CSUR), Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

37 Microsoft TerraServer: a spatial data warehouse

Tom Barclay, Jim Gray, Don Slutz

May 2000 ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(410.74 KB)

Microsoft® TerraServer stores aerial, satellite, and topographic images of the earth in a SQL database available via the Internet. It is the world's largest online atlas, combining eight terabytes of image data from the United States Geological Survey (USGS) and SPIN-2. Internet browsers provide intuitive spatial and text interfaces to the data. Users need no special hardware, software, or knowledge to locate and browse imagery. This paper describes how terabytes of "Internet unfrie ...

Keywords: VLDB, geo-spatial, image databases, internet

The Direct3D 10 system

David Blythe

July 2006 ACM Transactions on Graphics (TOG), ACM SIGGRAPH 2006 Papers SIGGRAPH '06, Volume 25 Issue 3

Publisher: ACM Press

Full text available: 🔁 pdf(377.38 KB) Additional Information: full citation, abstract, references, citings, index mov(23:56 MIN)

We present a system architecture for the 4th generation of PC-class programmable graphics processing units (GPUs). The new pipeline features significant additions and changes to the prior generation pipeline including a new programmable stage capable of generating additional primitives and streaming primitive data to memory, an expanded, common feature set for all of the programmable stages, generalizations to vertex and image memory resources, and new storage formats. We also describ ...

Keywords: graphics systems, programmable graphics hardware, programmable shading

Conference abstracts

January 1977 Proceedings of the 5th annual ACM computer science conference CSC

Publisher: ACM Press

Full text available: 🔁 pdf(3.14 MB) Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

40 Computer Communication Networks: Approaches, Objectives, and Performance



Considerations

Stephen R. Kimbleton, G. Michael Schneider

September 1975 ACM Computing Surveys (CSUR), Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(3.99 MB)

Additional Information: full citation, references, citings, index terms

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41 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

42 Automatic data structure selection: an example and overview

James R. Low

May 1978 Communications of the ACM, Volume 21 Issue 5

Publisher: ACM Press

Full text available: pdf(1.14 MB)

Additional Information: full citation, abstract, references, citings, index terms

The use of several levels of abstraction has proved to be very helpful in constructing and maintaining programs. When programs are designed with abstract data types such as sets and lists, programmer time can be saved by automating the process of filling in low-level implementation details. In the past, programming systems have provided only a single general purpose implementation for an abstract type. Thus the programs produced using abstract types were often inefficient in space or time. ...

Keywords: abstract data types, automatic programming, data structures, lists, optimizing compilers, sets

43 Thoth, a portable real-time operating system

David R. Cheriton, Michael A. Malcolm, Lawrence S. Melen, Gary R. Sager February 1979 Communications of the ACM, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings

Thoth is a real-time operating system which is designed to be portable over a large set of machines. It is currently running on two minicomputers with quite different architectures. Both the system and application programs which use it are written in a high-level language. Because the system is implemented by the same software on different hardware, it has the same interface to user programs. Hence, application programs which use Thoth are highly portable. Thoth encourages structuring progr...

Keywords: minicomputer, operating systems, portability, real time

44 Pilot: an operating system for a personal computer

David D. Redell, Yogen K. Dalal, Thomas R. Horsley, Hugh C. Lauer, William C. Lynch, Paul R. McJones, Hal G. Murray, Stephen C. Purcell

February 1980 Communications of the ACM, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings

Keywords: file, high-level language, modular programming, network, operating system, personal computer, process, system structure, virtual memory

45 Evolution of Data-Base Management Systems

James P. Fry, Edgar H. Sibley

March 1976 ACM Computing Surveys (CSUR), Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(2.63 MB)

Additional Information: full citation, references, citings, index terms

46 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: full citation

47 Information systems curriculum recommendations for the 80s: undergraduate and

graduate programs

Jay F. Nunamaker, J. Daniel Couger, Gordon B. Davis

November 1982 Communications of the ACM, Volume 25 Issue 11

Publisher: ACM Press

Full text available: pdf(2.20 MB)

Additional Information: full citation, abstract, references, citings, index terms

The recommendations of the 1972 and 1973 ACM Curriculum Committee on Information Systems programs have been influential in the development of degree programs at the bachelor's, master's, and doctoral levels. The earlier curriculum has been revised and updated based on advances in the field over the past nine years. The report discusses the continuing need for education related to the definition, analysis, design, construction, and management of information systems in organizations. The stru ...

ADP capacity planning: a case study



Mark J. Yader

December 1980 ACM SIGMETRICS Performance Evaluation Review, Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(929.55 KB) Additional Information: full citation, abstract, references

A case study of short-range ADP capacity planning is presented and related to the process of long-range planning. Short-range capacity planning is concerned with identification of computer and communication resources which will reach saturation levels in the near future. The initial step in the short-range planning process is to evaluate the performance of the user's current system configuration and one or more configuration enhancements with respect to their effectiveness in supporting a projec ...

49 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(8.01 MB)

Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearestneighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

TENEX, a paged time sharing system for the PDP - 10

Daniel G. Bobrow, Jerry D. Burchfiel, Daniel L. Murphy, Raymond S. Tomlinson March 1972 Communications of the ACM, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(932.60 KB) Additional Information: full citation, abstract, references, citings

TENEX is a new time sharing system implemented on a DEC PDP-10 augmented by special paging hardware developed at BBN. This report specifies a set of goals which are important for any time sharing system. It describes how the TENEX design and implementation achieve these goals. These include specifications for a powerful multiprocess large memory virtual machine, intimate terminal interaction, comprehensive uniform file and I/O capabilities, and clean flexible system structure. Although the ...

Keywords: PDP-10, TENEX, paging, process structure, scheduling algorithm, time sharing system, virtual machines

51 Link and channel measurement: A simple mechanism for capturing and replaying



wireless channels

Glenn Judd, Peter Steenkiste

August 2005 Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05

Publisher: ACM Press



	Full text available: <mark>因 pdf(6.06 MB)</mark> Additional Information: <u>full citation</u> , <u>abstract</u> , <u>references</u> , <u>index terms</u>	
	Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req	
	Keywords: channel capture, emulation, wireless	
52 ②	Process management and resource sharing in the multiaccess system in ESOPE C. Bétourné, J. Boulenger, J. Ferrié, C. Kaiser, S. Krakowiak, J. Mossière December 1970 Communications of the ACM, Volume 13 Issue 12 Publisher: ACM Press Full text available: pdf(798.46 KB) Additional Information: full citation, references, citings	
	Keywords : multiprogramming, process scheduling, resource allocation, time-sharing	
53 ③	The treatment of data types in EL1 Ben Wegbreit May 1974 Communications of the ACM, Volume 17 Issue 5	
	Publisher: ACM Press	
	Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, citings, index terms	
	In constructing a general purpose programming language, a key issue is providing a sufficient set of data types and associated operations in a manner that permits both natural problem-oriented notation and efficient implementation. The EL1 language contains a number of features specifically designed to simultaneously satisfy both requirements. The resulting treatment of data types includes provision for programmer-defined data types and generalc routines, programmer control over type conver	
	Keywords : coercion, compilation, data, data type definition, data types, description language, extensible languages, generic functions, mode unions, modes, type conversion	
54 �	GIS and file management J. H. Bryant, Parlan Semple January 1966 Proceedings of the 1966 21st national conference Publisher: ACM Press	
	Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms	
	The objective of this paper is to describe an application program that is being developed for use as a data base management system. The program is identified by the acronym, GIS for Generalized Information System. The word "system" appears in its title because the program is designed to perform a set of data base functions that are closely interrelated and are self-contained within defined boundaries. It is not, however, an independent or "stand-alone" system in that	
55	The FINITE STRING Newsletter: Abstracts of current literature Computational Linguistics Staff	

January 1987 Computational Linguistics, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available: pdf(6.15 MB) Additional Information: full citation

Publisher Site

⁵⁶ A retrospective on the Dorado, a high-performance personal computer

June 1983 ACM SIGARCH Computer Architecture News, Proceedings of the 10th annual international symposium on Computer architecture ISCA '83, Volume

11 Issue 3

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(2.01 MB)

Additional Information: full citation, abstract, references, citings, index terms

In late 1975, members of the Xerox Palo Alto Research Center embarked on the specification of a high-performance successor to the Alto personal minicomputer, in use since 1973. After four years, the resulting machine, called the Dorado, was in use within the research community at PARC. This paper begins with an overview of the design goals, architecture, and implementation of the Dorado and then provides a retrospective view and critique of the Dorado project as a whole. The major machine a ...

57 Design and implementation of a diagnostic compiler for PL/I

Richard W. Conway, Thomas R. Wilcox

March 1973 Communications of the ACM, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citings

PL/C is a compiler for a dialect for PL/I. The design objective was to provide a maximum degree of diagnostic assistance in a batch processing environment. For the most part this assistance is implicit and is provided automatically by the compiler. The most remarkable characteristic of PL/C is its perseverance—it completes translation of every program submitted and continues execution until a user-established error limit is reached. This requires that the compiler repair errors encoun ...

Keywords: PL/I, compilers, debugging, programming languages

58 Form management

D. Tsichritzis

July 1982 Communications of the ACM, Volume 25 Issue 7

Publisher: ACM Press

Full text available: pdf(2.78 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper consists of three interrelated parts. In the first part forms are intoduced as an abstraction and generalization of business paper forms. A set of facilities for the manipulation of forms and their contents is outlined. Forms can be created, stored, found, viewed in different media, mailed, and located by office workers. Data on forms can also be processed in a completely integrated way. The facilities are discussed both abstractly and in relation to a prototype ...

Keywords: database management, office modeling, office procedures

⁵⁹ Technical correspondence

CORPORATE Tech Correspondence

October 1989 Communications of the ACM, Volume 32 Issue 10

Publisher: ACM Press

Full text available: pdf(2.15 MB)

Additional Information: full citation, references, citings, index terms

60 A language for shading and lighting calculations

Pat Hanrahan, Jim Lawson

September 1990 ACM SIGGRAPH Computer Graphics, Proceedings of the 17th annual conference on Computer graphics and interactive techniques SIGGRAPH '90, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(2.08 MB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

A shading language provides a means to extend the shading and lighting formulae used by a rendering system. This paper discusses the design of a new shading language based on previous work of Cook and Perlin. This language has various types of shaders for light sources and surface reflectances, point and color data types, control flow constructs that support the casting of outgoing and the integration of incident light, a clearly specified interface to the rendering system using global state var ...

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Relevance scale

61 Ongoing management and application of discovered knowledge in a large regulatory organization: a case study of the use and impact of NASD Regulation's Advanced



Ted E. Senator

August 2000 Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '00

Publisher: ACM Press

Full text available: 📆 pdf(432.19 KB) Additional Information: full citation, references, citings, index terms

Keywords: KDD application, KDD process, case study, fraud detection, knowledge management

Data translation: Implementation of a prototype generalized file translator

David E. Bakkom, James A. Behymer

May 1975 Proceedings of the 1975 ACM SIGMOD international conference on Management of data SIGMOD '75

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings

The design of generalized data translators, particularly in the area of data base translation, has been the subject of much research in recent years. The practical application of this research has been limited and conducted primarily at the university level. This article outlines the research and development of a prototype generalized file translator by Honeywell. The Honeywell file translator is driven by descriptions of the input file, the output file and the file transformation to take place. ...

63 Reflections on an operating system design

Butler W. Lampson, Howard E. Sturgis

May 1976 Communications of the ACM, Volume 19 Issue 5

Publisher: ACM Press

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings

The main features of a general purpose multiaccess operating system developed for the CDC 6400 at Berkeley are presented, and its good and bad points are discussed as they appear in retrospect. Distinctive features of the design were the use of capabilities for protection, and the organization of the system into a sequence of layers, each building on the facilities provided by earlier ones and protecting itself from the malfunctions of later ones. There were serious problems in maintaining ...

Keywords: capabilities, faults, layering domains, memory hierarchy, operating system, protection

64 Session 2: Strongly typed memory areas programming systems-level data structures





in a functional language Iavor S. Diatchki, Mark P. Jones

September 2006 Proceedings of the 2006 ACM SIGPLAN workshop on Haskell Haskell

Publisher: ACM Press

Full text available: pdf(257.08 KB) Additional Information: full citation, abstract, references, index terms

Modern functional languages offer several attractive features to support development of reliable and secure software. However, in our efforts to use Haskell for systems programming tasks-including device driver and operating system construction-we have also encountered some significant gaps in functionality. As a result, we have been forced, either to code some non-trivial components in more traditional but unsafe languages like C or assembler, or else to adopt aspects of the foreign function in ...

Keywords: data representation, improvement, memory areas, memory manipulation, qualified types, systems programming

65 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering



September 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(1.98 MB) Additional Information: full citation, index terms

66 Special section: Reasoning about structure, behavior and function



B. Chandrasekaran, Rob Milne

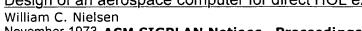
July 1985 ACM SIGART Bulletin, Issue 93

Publisher: ACM Press

Full text available: pdf(5.13 MB) Additional Information: full citation, abstract, references, citings

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

Design of an aerospace computer for direct HOL execution



November 1973 ACM SIGPLAN Notices, Proceedings of a symposium on High-levellanguage computer architecture SIGPLAN '73, Volume 8 Issue 11

Publisher: ACM Press

Full text available:

Additional Information:

党 pdf(806.79 KB)

full citation, references

68 Hints for computer system design

Butler W. Lampson

October 1983 ACM SIGOPS Operating Systems Review, Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(1.73 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Experience with the design and implementation of a number of computer systems, and study of many other systems, has led to some general hints for system design which are described here. They are illustrated by a number of examples, ranging from hardware such as the Alto and the Dorado to applications programs such as Bravo and Star.

69 Access control for large collections



H. M. Gladney

April 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(482.88 KB) terms, review

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

70 ALGOL: ALGOL bulletin no. 28



F. G. Duncan

November 1968 ACM SIGPLAN Notices, Volume 3 Issue 11

Publisher: ACM Press

Full text available: pdf(3.41 MB) Additional Information: full citation

Implementing sorting in database systems



Goetz Graefe

September 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 3

Publisher: ACM Press

Full text available: Topological pdf(518.63 KB) Additional Information: full citation, abstract, references, index terms

Most commercial database systems do (or should) exploit many sorting techniques that are publicly known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to adapt gracefully to resource fluctuations in multiuser operations. This survey collects many of these techniques for easy reference by students, researchers, and product developers. It covers in-memory sorting, disk-based external sorting, and cons ...

Keywords: Key normalization, asynchronous read-ahead, compression, dynamic memory

resource allocation, forecasting, graceful degradation, index operations, key conditioning, nested iteration

72 Structured Graphics for Distributed Systems

K. A. Lantz, W. I. Nowicki

January 1984 ACM Transactions on Graphics (TOG), Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(2.15 MB)

Additional Information: full citation, references, citings, index terms

73 Improving Program Efficiency by Packing Instructions into Registers



Stephen Hines, Joshua Green, Gary Tyson, David Whalley

May 2005 ACM SIGARCH Computer Architecture News, Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05,

Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: Topdf(316.46 KB) Additional Information: full citation, abstract, citings, index terms

New processors, both embedded and general purpose, often have conflicting design requirements involving space, power, and performance. Architectural features and compiler optimizations often target one or more design goals at the expense of the others. This paper presents a novel architectural and compiler approach to simultaneously reduce power requirements, decrease code size, and improve performance by integrating an instruction register file (IRF) into the architecture. Frequently occurring ...

74 A practical tool kit for making portable compilers



Andrew S. Tanenbaum, Hans van Staveren, E. G. Keizer, Johan W. Stevenson September 1983 Communications of the ACM, Volume 26 Issue 9

Publisher: ACM Press

Full text available: pdf(791.81 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Amsterdam Compiler Kit is an integrated collection of programs designed to simplify the task of producing portable (cross) compilers and interpreters. For each language to be compiled, a program (called a front end) must be written to translate the source program into a common intermediate code. This intermediate code can be optimized and then either directly interpreted or translated to the assembly language of the desired target machine. The paper describes the various pieces ...

Keywords: compiler, interpreter, portability, translator

75 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital



sky server data

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(1.48 MB)

Additional Information: full citation, abstract, references, citings, index terms

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the

Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

76 Reference model for DBMS standardization

March 1986 ACM SIGMOD Record, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(2.62 MB) Additional Information: full citation, abstract, citings, index terms

This report proposes a Reference Model (RM) for database management system (DBMS) standardization. A Reference Model is a conceptual framework whose purpose is to divide standardization work into manageable pieces and to show at a general level how these pieces are related with each other. The proposed RM comprises a Data Mapping Control System (DMCS) that retrieves and stores application data, application schemas, and data dictionary schemas. This DMCS is bounded by two interfaces: the Data Lan ...

77 GAMS: a framework for the management of scientific software

Ronald F. Boisvert, Sally E. Howe, David K. Kahaner

December 1985 ACM Transactions on Mathematical Software (TOMS), Volume 11 Issue 4

Publisher: ACM Press

Full text available: pdf(2.83 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

78 DBMS implementation experience: A generalized DBMS implementation on a



database machine

Asuman Dogac, Esen A. Ozkarahan

May 1980 Proceedings of the 1980 ACM SIGMOD international conference on Management of data SIGMOD '80

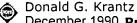
Publisher: ACM Press

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings

The design and implementation of a generalized database management system based on the RAP database machine is described. The GDBMS architecture, while is similar to the ANSI/SPARC view, has differences in the interpretation of its physical levels. The E/R model is chosen as the Meta Data Model (Conceptual Schema) which generates external model interfaces consisting of the relational, network, and hierarchical models. The SEQUEL, LSL, MRI --- like languages are supported at these interfaces. Str ...

Keywords: DDL, DML, E/R model query languages, GDBMS, RAP database machine, associative processors, data models, database machines, operational transformations, schemas, structural transformations

79 Ada development system technical and performance requirements (with rationale)



December 1990 Proceedings of the conference on TRI-ADA '90 TRI-Ada '90

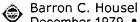
Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references

This paper discusses requirements for Ada1 compilers and associated tools used for real-

time embedded weapons systems (EWS) development. The requirements have been developed over a period of several years by embedded systems developers at Honeywell Inc. and Alliant Techsystems Inc. Requirements for the run time system, compilergenerated code, and host tools such as linkers are presented. A short rationale statement is provided with each specific requirement.

80 <u>Pipelining: a technique for implementing data restructurers</u>



December 1979 ACM Transactions on Database Systems (TODS), Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(1.54 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

In the past several years much attention has been given to the problem of data translation. The focus has been mainly on methodologies and specification languages for accomplishing this task. Recently, several prototype systems have emerged, and now the issues of implementation and performance must be addressed. In general, a data restructuring specification may contain multiple source and target files. This specification can be viewed as a "process graph" which is a network of ...

Keywords: data translation, database conversion, deadlock, pipelining, process scheduling

Results 61 - 80 of 128

Result page: previous 1 2 3 4 5 6 7 next

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Results 81 - 100 of 128 Result page: <u>previous</u> 1 2 3 4 5 6 7 <u>next</u> Relevance scale
Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu December 1988 Computational Linguistics, Volume 14 Issue 4 Publisher: MIT Press Full text available: pdf(4.41 MB) Additional Information: full citation, abstract, references, citings Publisher Site
UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about the UNIX ² operating system. UC was undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language processing, and knowledge representation. The current implementation of UC comprises the following components: a language analyzer, called ALANA, produces a repre
7 TIL: a type-directed optimizing compiler for ML D. Tarditi, G. Morrisett, P. Cheng, C. Stone, R. Harper, P. Lee May 1996 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1996 conference on Programming language design and implementation PLDI '96, Volume 31
Issue 5 Publisher: ACM Press Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms
The early history and characteristics of PL/I George Radin January 1978 ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of
programming languages HOPL-I, Volume 13 Issue 8 Publisher: ACM Press
Full text available: <mark> pdf(1.41 MB) Additional Information: <u>full citation, abstract, references, citings, index</u></mark>

Source material for a written history of PL/I has been preserved and is available in dozens of cartons, each packed with memos, evaluations, language control logs, etc. A remembered history of PL/I is retrievable by listening to as many people, each of whom was deeply involved in one aspect of its progress. This paper is an attempt to gather together and evaluate what I and some associates could read and recall in a few months. There is enough material left for several dissertations. ...

terms

84 Article abstracts with full text online: Globus security model for grid environment

Nitin V. Kanaskar, Umit Topaloglu, Coskun Bayrak

November 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 6

Publisher: ACM Press

Full text available: pdf(372.40 KB) Additional Information: full citation, abstract, references, index terms

Grid technology is increasingly being looked upon as a natural extension of the internet for engaging in complex data processing tasks over resources which are distributed across the world. Architects and developers employing grid systems must take into consideration security implications. Dynamic generation of virtual organizations leads to a synergistic picture which has to address security requirements never encountered before. Globus toolkit has devised a framework for making secure use of g ...

85 Computers and Privacy: A Survey

Lance J. Hoffman

June 1969 ACM Computing Surveys (CSUR), Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(1.74 MB) Additional Information: full citation, references, citings, index terms

⁸⁶ Incorporating embedded programming skills into an ECE curriculum

Kenneth G. Ricks, David J. Jackson, William A. Stapleton January 2007 ACM SIGBED Review, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(400.02 KB) Additional Information: full citation, abstract, references, index terms

In this paper, the typical electrical and computer engineering (ECE) curriculum is examined to determine its effectiveness at presenting embedded programming skills. The software concepts and programming techniques necessary for embedded systems are somewhat different than those seen in other engineering domains. Thus, it makes sense to specifically address embedded programming needs within the formal programming education ECE students receive. Several topical areas of concern are identified, an ...

Keywords: C programming language, embedded systems education, embedded systems programming, engineering curriculum

87 Evolution of the meta-assembly program

David E. Ferguson

March 1966 Communications of the ACM, Volume 9 Issue 3

Publisher: ACM Press

Full text available: pdf(964.87 KB) Additional Information: full citation, abstract, citings

A generalized assembler called a "meta-assembler" is described. The meta-assembler is defined and factors which contributed to its evolution are presented. How a meta-assembler is made to function as an assembly program is described. Finally, the implication of meta-assemblers on compiler design is discussed.

88 Some experience in building portable software

Max Stern

May 1978 Proceedings of the 3rd international conference on Software engineering ICSE '78

Publisher: IEEE Press

Additional Information:

Full text available: pdf(671.27 KB)

full citation, abstract, references, citings, index terms

Several authors have discussed methodology for making software portable, but less has been written about the specific components of programs which are likely to be systemdependent. This paper is based on several years of successful experience in making a major software product (MARK IV) transportable among many operating systems and machines. The product is implemented in assembly language and developed on a single support system for all of the "target" systems. The specific strategies and ...

Keywords: Architectural families, Information hiding, Input/output, Modularity, Purposeful structuring, Software portability, System dependencies

89 Programming in an Interactive Environment: the ``Lisp" Experience

Erik Sandewall

March 1978 ACM Computing Surveys (CSUR), Volume 10 Issue 1

Publisher: ACM Press

Full text available: 🔁 pdf(3.25 MB) Additional Information: full citation, references, citings, index terms

90 Four Dimensions of <u>programming-language independence</u> Daniel J. Salomon

March 1992 ACM SIGPLAN Notices, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, index terms

The features of programming languages can be evaluated according to how they affect programming-language independence in four dimensions. The four dimensions are: 1) machine independence, 2) problem independence, 3) human independence, and 4) time independence. This paper presents a definition of independence, and shows how that definition applies to each of the dimensions. By organizing language features in this way, the strengths and weaknesses of many language designs can be identified ...

Formalism in programming languages

Kenneth E. Iverson

February 1964 Communications of the ACM, Volume 7 Issue 2

Publisher: ACM Press

Full text available: 7 pdf(953.32 KB) Additional Information: full citation, references, citings, index terms

92 ABSTRACTS OF INTEREST

Susanne M. Humphrey, Ben Shneiderman January 1990 ACM SIGCHI Bulletin, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract

The following abstracts were selected from a computer search using the BRS Information Technologies retrieval services of the Dissertation Abstracts International (DAI) database produced by University Microfilms International. Unless otherwise specified, paper or microform copies of dissertations may be ordered, using the UM order number, from University Microfilms International, Dissertation Copies, Post Office Box 1764, Ann Arbor, MI 488106; telephone for U.S. (except Michigan, Hawaii, or Alask ...

Transaction processing monitors

Philip A. Bernstein

November 1990 Communications of the ACM, Volume 33 Issue 11

Publisher: ACM Press

Full text available: pdf(3.06 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A transaction processing (TP) application is a program that performs an administrative function by accessing a shared database on behalf of an on-line user. A TP system is an integrated set of products that supports TP applications. These products include both hardware, such as processors, memories, disks and communications controllers, and software such as operating systems (Oss), database management systems (DBMSs), computer networks and TP monitors. Much of the integration of these prod ...

94 KMS: a distributed hypermedia system for managing knowledge in organizations

Robert M. Akscyn, Donald L. McCracken, Elise A. Yoder July 1988 Communications of the ACM, Volume 31 Issue 7

Publisher: ACM Press

Full text available: pdf(1.67 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Developers of hypermedia systems face many design issues. The design for KMS, a largescale hypermedia system for collaborative work, seeks improved user productivity through simplicity of the conceptual data model.

95 The FINITE STRING newsletter: Abstracts of current literature

Computational Linguistics Staff

July 1984 Computational Linguistics, Volume 10 Issue 3-4

Publisher: MIT Press

Full text available: pdf(2.30 MB)

Additional Information: full citation

96 Abstracts from the conference on computer graphics and interactive techniqes



September 1974 ACM SIGGRAPH Computer Graphics, Volume 8 Issue 3

Publisher: ACM Press

Full text available: pdf(1.10 MB)

Additional Information: full citation

Integrating GNAT and GCC



Richard Kenner

November 1994 Proceedings of the conference on TRI-Ada '94 TRI-Ada '94

Publisher: ACM Press

Full text available: 7 pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

98 A frame buffer system with enhanced functionality



F. C. Crow, M. W. Howard

August 1981 ACM SIGGRAPH Computer Graphics , Proceedings of the 8th annual conference on Computer graphics and interactive techniques SIGGRAPH

'81, Volume 15 Issue 3

Publisher: ACM Press

Full text available: 🔁 pdf(561.14 KB) Additional Information: full citation, abstract, references, index terms

A video-resolution frame buffer system with 32 bits per pixel is described. The system includes, in addition to standard features for limited zoom and pan, an arithmetic unit at the update port which allows local computation of many frequently-used pixel-level functions combining stored pixel values with incoming pixel values. In addition to the standard arithmetic and logical functions there are functions for sum to maximum pixel value and difference to minimum pixel value. Comparisons bet ...

99 The Personal Presence System—hardware architecture



October 1994 Proceedings of the second ACM international conference on Multimedia **MULTIMEDIA '94**

Publisher: ACM Press

Full text available: pdf(957.84 KB)

Additional Information: full citation, abstract, references, citings, index

The Personal Presence System (PPS) experimental prototype is being designed to support multiparty multimedia visual services which use advanced video combining techniques. This paper is a companion to another paper in this proceedings: "The Personal Presence System—A Wide Area Network Service Resource for the Real Time Composition of Multipoint Multimedia Communications" which contains a detailed service description. This paper describes the architecture of the A ...

100 4th international workshop on middleware for grid computing (MGC'06): KidneyGrid: a



a grid platform for integration of distributed kidney models and resources Xingchen Chu, Andrew Lonie, Peter Harris, S. Randall Thomas, Rajkumar Buyya November 2006 Proceedings of the 4th international workshop on Middleware for grid computing MCG '06

Publisher: ACM Press

Full text available: pdf(535.10 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a grid computing platform that provides experimental scientists and analysts with access to computational simulations and knowledge databases hosted in separate laboratories around the world involved with human and animal kidney research. No single laboratory can develop these resources in isolation and the community of users should no longer need to be dependent upon the specific programming environment in which applications have been developed. This is a major innovat ...

Keywords: grid computing, grid portal, kidney modeling, visualization, web service resource framework

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101 Operating system design with computer network communication protocols

window

Wilfried G. PROBST, Gregor V. BOCHMANN

September 1977 Proceedings of the fifth symposium on Data communications SIGCOMM '77

Publisher: ACM Press

Full text available: pdf(781.02 KB) Additional Information: full citation, abstract, references, index terms

In view of the size and complexity of modern operating systems, this paper proposes their subdivision into a set of smaller functional modules and the implementation of a number of their functions on separate hardware processors. The information transfer requirements resulting from physically separated system components are examined and the adaptation of a standard end-to-end protocol is suggested for an efficient solution to the interprocess communication problems.

102 The K2 parallel processor: architecture and hardware implementation

٩

Marco Annaratone, Marco Fillo, Kiyoshi Nakabayashi, Marc Viredaz

May 1990 ACM SIGARCH Computer Architecture News , Proceedings of the 17th annual international symposium on Computer Architecture ISCA '90, Volume 18 Issue 3a

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

K2 is a distributed-memory parallel processor designed to support a multi-user, multi-tasking, time-sharing operating system and an automatically parallelizing FORTRAN compiler. This paper presents the architecture and the hardware implementation of K2, and focuses on the architectural features required by the operating system and the compiler. A prototype machine with 24 processors is currently being developed.

103 The RADIANCE lighting simulation and rendering system

Gregory J. Ward

July 1994 Proceedings of the 21st annual conference on Computer graphics and interactive techniques SIGGRAPH '94

Publisher: ACM Press

Full text available: pdf(2.36 MB)

Additional Information: $\underline{\text{full citation}}, \underline{\text{abstract}}, \underline{\text{references}}, \underline{\text{citings}}, \underline{\text{index}}$

<u>terms</u>

This paper describes a physically-based rendering system tailored to the demands of

lighting design and architecture. The simulation uses a light-backwards ray-tracing method with extensions to efficiently solve the rendering equation under most conditions. This includes specular, diffuse and directional-diffuse reflection and transmission in any combination to any level in any environment, including complicated, curved geometries. The simulation blends deterministic and stochastic ray-trac ...

Keywords: Monte Carlo, lighting simulation, physically-based rendering, radiosity, ray-tracing

104 A shading language on graphics hardware: the pixelflow shading system

Marc Olano, Anselmo Lastra

July 1998 Proceedings of the 25th annual conference on Computer graphics and interactive techniques SIGGRAPH '98

Publisher: ACM Press

Full text available: pdf(238.26 KB) Additional Information: full citation, references, citings, index terms

Keywords: procedural shading, real-time image generation, shading language

105 Object-oriented programming in Ada83—genericity rehabilitated

Henry G. Baker
October 1991 **ACM SIGAda Ada Letters**, Volume XI Issue 9

Publisher: ACM Press

Full text available: pdf(1.04 MB)

Additional Information: full citation, abstract, citings, index terms

A scheme for single-inheritance object-oriented programming in Ada83 is presented in which man y methods are determined at compile time using "generic" subprogram overloading. Unlike previous schemes for object-oriented programming in Ada83, which rely exclusively on derived types for inheritance, our scheme utilizes both derived types and generic units, and hence is more powerful. In particular, inheritance schemes based on derived types cannot handle the C++ concept of "virtual function", wh ...

106 EUROCAL '85 Abstracts

S. Kamal Abdali

February 1986 ACM SIGSAM Bulletin, Volume 20 Issue 1-2

Publisher: ACM Press

Full text available: pdf(2.68 MB) Additional Information: full citation, abstract

Programming environments have dramatically improved since the time that the major symbolic computation systems such as MACSYMA and REDUCE were developed. The new environments allow direct user interaction with the machine via the mouse, menus, and icons, making obsolete the requirement that the user type instructions to an operating system or language processor to effect desired computations.

107 <u>WebExpress: a client/intercept based system for optimizing Web browsing in a</u> wireless environment

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 Mobile Networks and Applications, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(338.35 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application model and software technology that makes it possible

to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

108 Binaries and bit stream processing: A stream library using Erlang binaries



Jav Nelson

September 2005 Proceedings of the 2005 ACM SIGPLAN workshop on Erlang ERLANG

Publisher: ACM Press

Full text available: 🔁 pdf(254.76 KB) Additional Information: full citation, abstract, references, index terms

An implementation of a Stream Library for erlang is described which uses Built-In Functions (BIFs) for fast access. The approach uses binaries to represent and process stream data in high volume, high performance applications. The library is intended to assist developers dealing with communication protocols, purely textual content, formatted data records and the routing of streamed data. The new BIFs are shown to improve performance as much as 250 times over native erlang functions ...

Keywords: BIF, binary, erlang, stream

109 OOPSLA onward! track chair's welcome: Pegasus: first steps toward a naturalistic





programming language

Roman Knöll, Mira Mezini

October 2006 Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06

Publisher: ACM Press

Full text available: pdf(510.80 KB) Additional Information: full citation, abstract, references, index terms

In this article a new programming paradigm is discussed: naturalistic programming. Naturalistic Programming means writing computer programs with the help of natural language. The authors are convinced that contemporary programming techniques have reached a level where only a fundamental change of paradigm can develop them any further. Introducing, philosophical and epistemological issues related to programming and human thinking are discussed. After that, the programming language Pegasus < ...

Keywords: aspect-oriented programming, cognitive foundations of programming, language design, natural language programming, naturalistic programming, philosophical foundations of programming

110 APL and robotics



A. Martin Euredjian

May 1985 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: APL and the future APL '85, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, references, citings, index terms

Program execution speeds on today's general purpose APL running computers do not allow APL to be used as a Robot control language, this execution speed problem will go away with faster and better processors. This paper presents an attempt to make APL work for Robotics with today's technology. The basic concept is quite simple: Leave to APL what it can do in real time and have another computer running a faster language do the rest. This allows for APL program development until the ...

111 Applied cryptography I: Forward-secure signatures with untrusted update

Xavier Boyen, Hovav Shacham, Emily Shen, Brent Waters

October 2006 Proceedings of the 13th ACM conference on Computer and communications security CCS '06

Publisher: ACM Press

Full text available: pdf(261.19 KB) Additional Information: full citation, abstract, references, index terms

In most forward-secure signature constructions, a program that updates a user's private signing key must have full access to the private key. Unfortunately, these schemes are incompatible with several security architectures including Gnu Privacy Guard (GPG) and S/MIME, where the private key is encrypted under a user password as a "second factor" of security, in case the private key storage is corrupted, but the password is not.We introduce the concept of forward-secure signatures with untrusted ...

Keywords: digital signatures, forward security, two-factor authentication, untrusted storage

112 OOPSLA onward! track: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

December 2003 ACM SIGPLAN Notices, Volume 38 Issue 12

Publisher: ACM Press

Full text available: pdf(2.62 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

113 Onward papers: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications OOPSLA '03

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, index terms

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

114 Information retrieval on the web

Mei Kobayashi, Koichi Takeda June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2



Publisher: ACM Press

Full text available: pdf(213.89 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

115 A Performance Evaluation of the Convex SPP-1000 Scalable Shared Memory

Parallel Computer

Thomas Sterling, Daniel Savaresse, Peter MacNeice, Kevin Olson, Clark Mobarry, Bruce Fryxell, Phillip Merkey

December 1995 Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95

Publisher: ACM Press

Full text available: pdf(457.11 KB)

html(2.67 KB)

Additional Information: full citation, references, citings

를 ps(780.23 KB)

116 Meshed atlases for real-time procedural solid texturing



Nathan A. Carr, John C. Hart

April 2002 ACM Transactions on Graphics (TOG), Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(5.93 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

We describe an implementation of procedural solid texturing that uses the texture atlas, a one-to-one mapping from an object's surface into its texture space. The method uses the graphics hardware to rasterize the solid texture coordinates as colors directly into the atlas. A texturing procedure is applied per-pixel to the texture map, replacing each solid texture coordinate with its corresponding procedural solid texture result. The procedural solid texture is then mapped back onto the object s ...

Keywords: MIP-map, Mesh partitioning, procedural texturing, solid texturing, texture atlas, texture mapping

117 Talisman: commodity realtime 3D graphics for the PC



Jay Torborg, James T. Kajiya

August 1996 Proceedings of the 23rd annual conference on Computer graphics and interactive techniques SIGGRAPH '96

Publisher: ACM Press

Full text available: pdf(107.48 KB) Additional Information: full citation, references, citings, index terms

¹¹⁸ Architecture, design, and implementation of a multimedia conference system

Anna A. Hać, Dongchen A. Lu

March 1997 International Journal of Network Management, Volume 7 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(517.69 KB) Additional Information: full citation, abstract, references, index terms

In this article a new multimedia conference system is designed and implemented which allows a group of users to conduct a meeting in real time. Participants can jointly view and edit relevant multimedia information, including text, graphics, and still images distributed throughout the network. © 1997 John Wiley & Sons, Ltd.

119 An effective way to represent quadtrees

Irene Gargantini

December 1982 Communications of the ACM, Volume 25 Issue 12

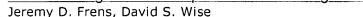
Publisher: ACM Press

Full text available: pdf(526.01 KB)

Additional Information: full citation, abstract, references, citings, index terms

A quadtree may be represented without pointers by encoding each black node with a quaternary integer whose digits reflect successive quadrant subdivisions. We refer to the sorted array of black nodes as the "linear quadtree" and show that it introduces a saving of at least 66 percent of the computer storage required by regular quadtrees. Some algorithms using linear quadtrees are presented, namely, (i) encoding a pixel from a 2n **Keywords**: digital images, image encoding

¹²⁰ Auto-blocking matrix-multiplication or tracking BLAS3 performance from source code



June 1997 ACM SIGPLAN Notices, Proceedings of the sixth ACM SIGPLAN symposium on Principles and practice of parallel programming PPOPP '97, Volume 32

Issue 7

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references, citings, index terms

An elementary, machine-independent, recursive algorithm for matrix multiplication C+=A*B provides implicit blocking at *every* level of the memory hierarchy and tests out faster than classically optimrd code, tracking hand-coded BLAS3 routines. Proof of concept is demonstrated by racing the in-place algorithm against manufacturer's hand-tuned BLAS3 routines; it can win. The recursive code bifurcates naturally at the top level into independent block-oriented processes, that each writes to a d ...

Keywords: cache misses, indexing, paging, quadtrees, storage management, swapping

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121 Track 5: supercomputing (part 2): Exploiting processor groups to extend scalability of

the GA shared memory programming model

Jarek Nieplocha, Manoj Krishnan, Bruce Palmer, Vinod Tipparaju, Yeliang Zhang May 2005 Proceedings of the 2nd conference on Computing frontiers CF '05

Publisher: ACM Press

Full text available: pdf(375.15 KB)

Additional Information: full citation, abstract, references, citings, index

Exploiting processor groups is becoming increasingly important for programming nextgeneration high-end systems composed of tens or hundreds of thousands of processors. This paper discusses the requirements, functionality and development of multilevelparallelism based on processor groups in the context of the Global Array (GA) shared memory programming model. The main effort involves management of shared data, rather than interprocessor communication. Experimental results for the NAS NPB Conjug ...

Keywords: extreme scalability, global arrays, multi-level parallelism, processor groups

122 Comparative survey of database management systems on microcomputers



Gordon C. Everest, Christopher T. Lawrence

October 1981 ACM SIGSMALL Newsletter, Proceedings of the 1981 ACM SIGSMALL symposium on Small systems and SIGMOD workshop on Small database systems SIGSMALL '81, Volume 7 Issue 2

Publisher: ACM Press

Full text available: 7 pdf(896.60 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the results of a survey of Database Management Systems (DBMS) available on microcomputer systems where the total cost of hardware plus software is less than \$ 25,000. Most of the information was obtained from published materials and user manuals for the systems. The survey focuses on functional characteristics and physical requirements and limitations. None of the information is based on actual usage.

123 Undergraduate embedded system education at Carnegie Mellon



Philip Koopman, Howie Choset, Rajeev Gandhi, Bruce Krogh, Diana Marculescu, Priya Narasimhan, Joann M. Paul, Ragunathan Rajkumar, Daniel Siewiorek, Asim Smailagic, Peter Steenkiste, Donald E. Thomas, Chenxi Wang

August 2005 ACM Transactions on Embedded Computing Systems (TECS), Volume 4 Issue

Publisher: ACM Press

Full text available: pdf(162.46 KB) Additional Information: full citation, abstract, references, index terms

Embedded systems encompass a wide range of applications, technologies, and disciplines, necessitating a broad approach to education. We describe embedded system coursework during the first 4 years of university education (the U.S. undergraduate level). Embedded application curriculum areas include: small and single-microcontroller applications, control systems, distributed embedded control, system-on-chip, networking, embedded PCs, critical systems, robotics, computer peripherals, wireless data ...

Keywords: Embedded systems education, curriculum

124 Proxy compilation of dynamically loaded Java classes with MoJo

Matt Newsome, Des Watson

June 2002 ACM SIGPLAN Notices, Proceedings of the joint conference on Languages, compilers and tools for embedded systems: software and compilers for embedded systems LCTES/SCOPES '02, Volume 37 Issue 7

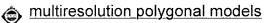
Publisher: ACM Press

Full text available: pdf(358.62 KB) Additional Information: full citation, abstract, references, index terms

Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java offer dramatic increases in efficiency, but have poor support for dynamically-loaded classes, which are typically served by slow interpreters or JIT compilers, the code-size of this latter utterly mismatching the resource constraints of the system. After a brief survey of Ahead-of-Time compilers for Java, we prese ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hotspot, just-in-time, native compilation, proxy compilation, remote compilation

125 Adaptive tetrapuzzles: efficient out-of-core construction and visualization of gigantic



Paolo Cignoni, Fabio Ganovelli, Enrico Gobbetti, Fabio Marton, Federico Ponchio, Roberto Scopigno

August 2004 ACM Transactions on Graphics (TOG), ACM SIGGRAPH 2004 Papers SIGGRAPH '04, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(525.88 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe an efficient technique for out-of-core construction and accurate view-dependent visualization of very large surface models. The method uses a regular conformal hierarchy of tetrahedra to spatially partition the model. Each tetrahedral cell contains a precomputed simplified version of the original model, represented using cache coherent indexed strips for fast rendering. The representation is constructed during a fine-to-coarse simplification of the surface contained in diamonds (sets ...

Keywords: Level of Detail, Out-Of-Core Algorithms

126 Notes from journals

Stanley Habib

October 1973 ACM SIGMICRO Newsletter, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(579.50 KB) Additional Information: full citation, abstract

<u>COMPUTER DESIGN</u> - July 1973 - "A Compatible MOS/LSI Microprocessor Device Family" - William E. Wickes, Rockwell International Corporation, Microelectronics Division, Anaheim, California - Reprinted with permission from COMPUTER DESIGN, July 1973 issue.

127 Interface and new interactive systems (panel session)

Brenda Laurel, David Nagel, Chris Schmandt, Michael Naimark, Douglas Crockford August 1990 ACM SIGGRAPH 90 Panel Proceedings SIGGRAPH '90

Publisher: ACM Press

Full text available: pdf(2.25 MB) Additional Information: full citation, index terms

128 Performance issues of scientific programming in Ada 95

James B. White
November 1997 Proceedings of the conference on TRI-Ada '97 TRI-Ada '97

Publisher: ACM Press

Full text available: pdf(1.35 MB) Additional Information: full citation, references, index terms

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20-21 Oct. 1997 Page(s):87 - 90, 124

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IEEE STD IEEE Standard

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26. Accelerating volume rendering using an on-chip SRAM occupancy map

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